

TITLE: RESOURCE ALLOCATION
INVENTOR'S NAME: Ravindra K. Shetty, et al:
SERIAL NO.: 09/904,749 DOCKET NO.: 256.093US1

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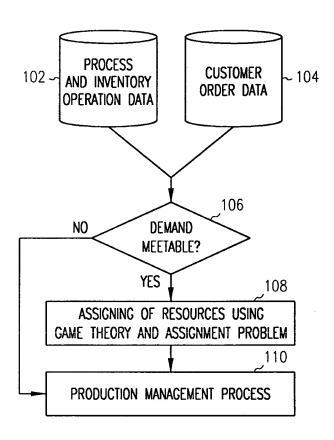


FIG. 1

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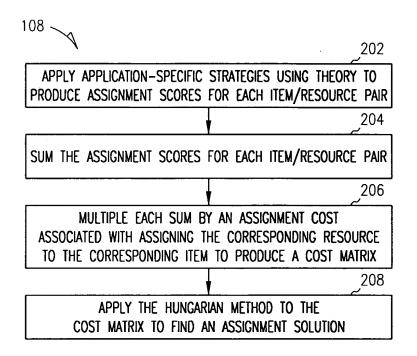


FIG. 2

V 300

	RESOURCE 1	RESOURCE 2	•	•	•	RESOURCE j	RESOURCE ;
ITEM 1	C ₁₁	C ₁₂					
ITEM 2	C ₂₁	C ₂₂					
•			-				
•							
ITEM i			-			Cij	_
ITEM n							C _{nk}

FIG. 3

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	BUFFER 1	BUFFER 2	BUFFER 3	BUFFER 4	BUFFER 5
STRATEGY 1	0.6	0.8	0.9	0.6	0.9
STRATEGY 2	0.8	0.7	0.0	0.9	0.9
STRATEGY 3	0.0	0.9	0.8	0.0	0.8
STRATEGY 4	0.6	0.6	0.8	0.0	0.9
TOTAL	2	3	2.5	1.5	3.5

	BUFFER 1	BUFFER 2	BUFFER 3	BUFFER 4	BUFFER 5
STRATEGY 1	8.0	0.6	0.95	0.75	0.35
STRATEGY 2	0.1	0.9	0.85	0.75	0.65
STRATEGY 3	0.7	0.85	0.95	0.45	0.15
STRATEGY 4	0.9	0.85	0.95	0.95	0.95
TOTAL	2.5	3	3.7	2.8	2.1

FIG. 4

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	BUFFER 1	BUFFER 2	BUFFER 3	BUFFER 4	BUFFER 5
ITEM 1	2	3	2.5	1.5	3.5
ITEM 2	2.5	3	3.7	2.8	2.1
ITEM 3	2.8	3.8	3.1	2.1	2
ITEM 4	2.3	3.4	3.1	3.9	1.6
ITEM 5	3.8	2.1	1.0	2.5	2.3

502

500

	BUFFER 1	BUFFER 2	BUFFER 3	BUFFER 4	BUFFER 5
ITEM 1	1.5	2.66	0.784	6.60	0.857
ITEM 2	3.2	2.33	0.54	3.21	3.33
ITEM 3	2.14	1.05	0.645	3.3	2.50
ITEM 4	3.47	1.17	0.645	0.769	3.125
ITEM 5	2.368	4.76	6.0	3.6	4.34

	BUFFER 1	BUFFER 2	BUFFER 3	BUFFER 4	BUFFER 5
ITEM 1	3	8	2	10	3
ITEM 2	8	7	2	9	7
ITEM 3	6	4	2	7	5
ITEM 4	8	4	2	3	5
ITEM 5	9	10	6	9	10

FIG. 5

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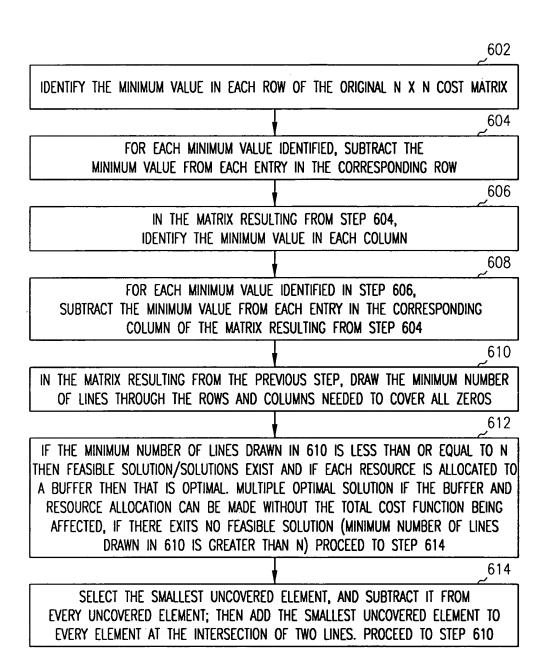


FIG. 6

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	BUFFER 1	BUFFER 2	BUFFER 3	BUFFER 4	BUFFER 5	ROW MINIMUM
ITEM 1	3	8	2	10	3	2
ITEM 2	8	7	2	9	7	2
ITEM 3	6	4	2	7	5	2
ITEM 4	8	4	2	3	5	2
ITEM 5	9	10	6	9	10	6

704

	BUFFER 1	BUFFER 2	BUFFER 3	BUFFER 4	BUFFER 5
ITEM 1	3-2=1	8-2=6	2-2=0	10-2=8	3-2=1
ITEM 2	6	5	0	7	5
ITEM 3	4	2	0	5	3
ITEM 4	6	2	0	1	3
ITEM 5	3	4	0	3	4
COLUMN MINIMUM	1	2	0	1	1

	BUFFER 1	BUFFER 2	BUFFER 3	BUFFER 4	BUFFER 5
ITEM 1	0	4	0	7	0
ITEM 2	5	3	0	6	4
ITEM 3	3	0	0	4	2
ITEM 4	5	0	0	0	2
ITEM 5	2	2	0	2	3

FIG. 7A

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	708
<i>V</i>	

	BUFFER 1	BUFFER 2	BUFFER 3	BUFFER 4	BUFFER 5
ITEM 1	0	4	0+2=2	7	0
ITEM 2	5-2=3	3-2=1	0	6-2=4	4-2=2
ITEM 3	3	0	0+2=2	4	2
ITEM 4	5	0	0=2=2	0	2
ITEM 5	2-2=0	2-2=0	0	2-2=0	3-2=1

	BUFFER 1	BUFFER 2	BUFFER 3	BUFFER 4	BUFFER 5
ITEM 1	0	4	2	7	0
ITEM 2	3	1	0	4	2
ITEM 3	3	0	2	4	2
ITEM 4	5	0	2	0	2
ITEM 5	0	0 -	0	0	1

FIG. 7B

ITEMS	Buffers	COST (UNITS)
ITEM 1	Buffer 5	3
ITEM 2	BUFFER 3	2
ITEM 3	BUFFER 2	4
ITEM 4	BUFFER 4	3
ITEM 5	BUFFER 1	9
TOTAL COST INVOLVED		21

FIG. 8